

- 6 Alicia delivers newspapers on her bicycle. Her route is 6 kilometers long. She usually starts working at 7:00 a.m. and finishes by 10:00 a.m.

- What is the average speed Alicia must travel to finish in 3 hours? (Show the equation you use and your math.)
- If Alicia starts work an hour later, what will her average speed need to be in order to finish at her usual time? (Show your math.)
- If Alicia decides to get a bigger route that is 12 kilometers long, what does her average speed need to be in order to start and finish at her usual times? Explain your thinking.

- 7 In the equation  $v = d / \Delta t$ , what happens to the value of  $v$  when

- $d$  gets bigger?
- $\Delta t$  gets bigger?

- 8 These speed graphs show that one person is going faster than the other two.

- Who is going fastest?
- How do you know?

